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(54) **CAPACITY CONTROL DEVICE FOR SCREW COMPRESSOR**

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(57) Abstract:

**PURPOSE:** To ensure a proper control speed in a wide operation range where a differential pressure between high and low pressures is fluctuated and to provide a proper load up speed regardless of a cooling water temperature during starting.

**CONSTITUTION:** When a differential pressure between high and low pressures is low during load up, only an on-off valve SV2 on the low resistance side is opened, and oil is discharged through a first discharge passage 8a on the load up side. When the level differential pressure is high, only an on-off valve SV3 on the high resistance side is opened and oil is discharged through a second discharge passage 8b on the load up side. This constitution improves drainage of oil from a chamber 51 on the load side when the differential pressure is low, prevents the occurrence of defective operation of load up and a delay of load up, and prevents a load up speed from being excessively increased when the differential pressure is high.

